

## First results from the big tile

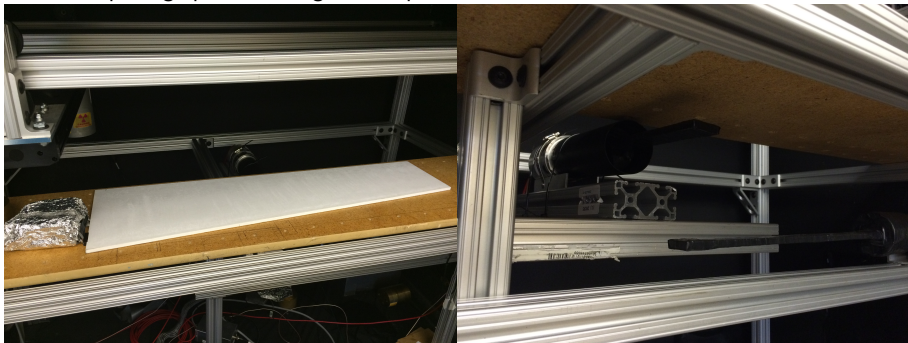
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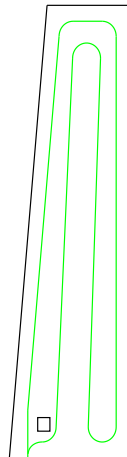
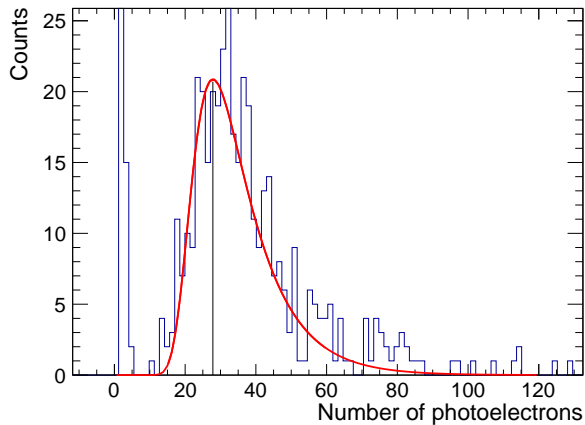


Some photographs of the big tile setup

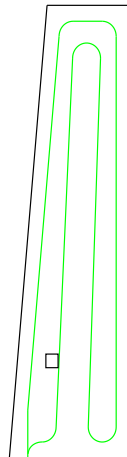
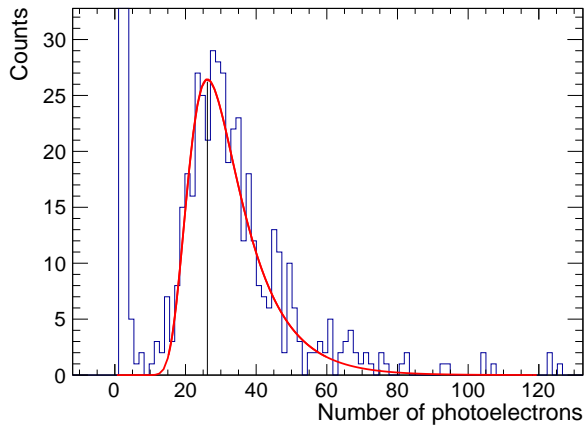


We have both phototubes under the table so that LED scans can be run without total deconstruction

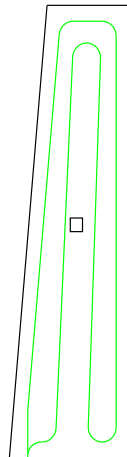
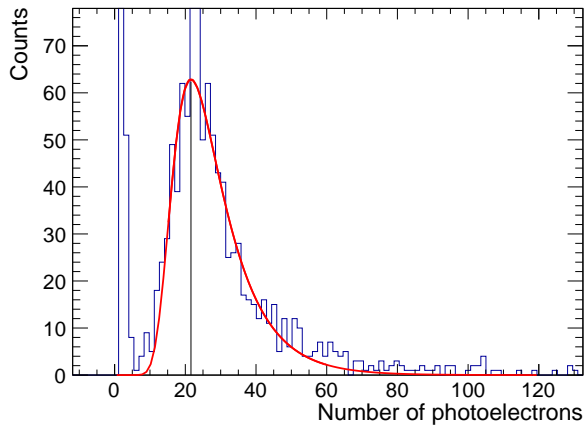
We have the upper tube as close to the tile as possible to minimize the fraction of particles that trigger both tubes but miss the tile



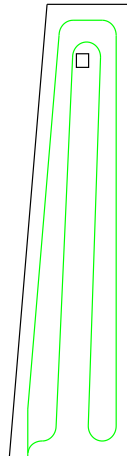
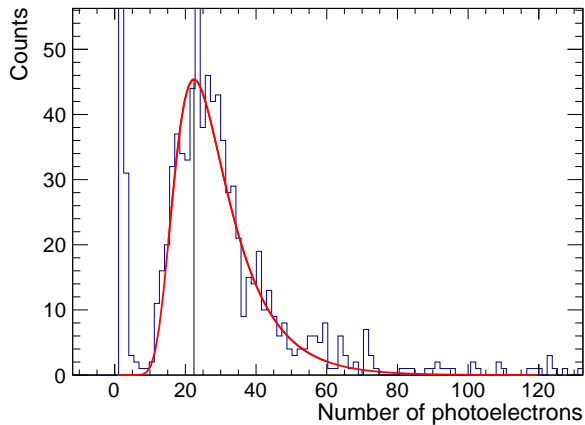
$[\Delta E]_{MPV} = 27.8 \pm 0.5$  photoelectrons and  $\xi = 5.5 \pm 0.3$  photoelectrons



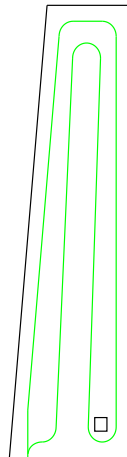
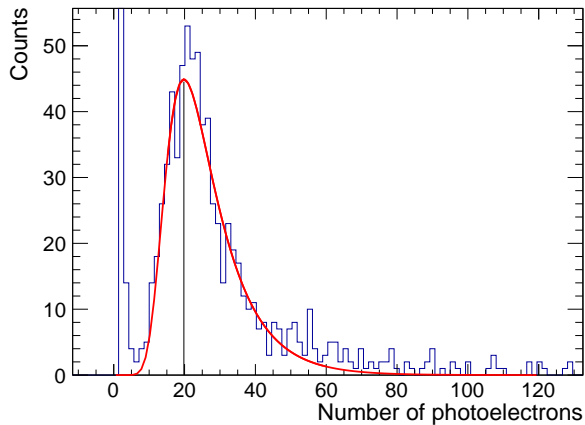
$[\Delta E]_{MPV} = 26.2 \pm 0.4$  photoelectrons and  $\xi = 5.1 \pm 0.3$  photoelectrons



$[\Delta E]_{MPV} = 21.6 \pm 0.5$  photoelectrons and  $\xi = 5.0 \pm 0.3$  photoelectrons

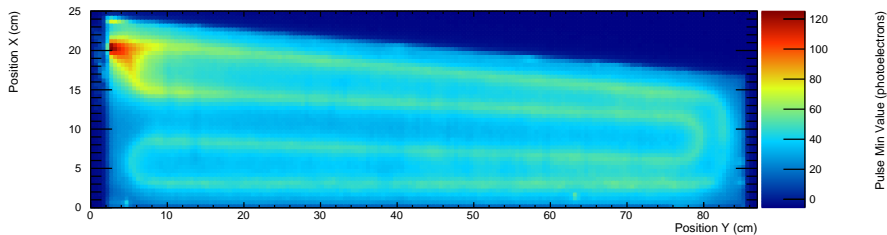


$[\Delta E]_{MPV} = 22.4 \pm 0.6$  photoelectrons and  $\xi = 5.2 \pm 0.3$  photoelectrons



$[\Delta E]_{MPV} = 19.8 \pm 0.7$  photoelectrons and  $\xi = 5.0 \pm 0.3$  photoelectrons

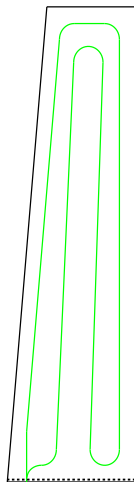
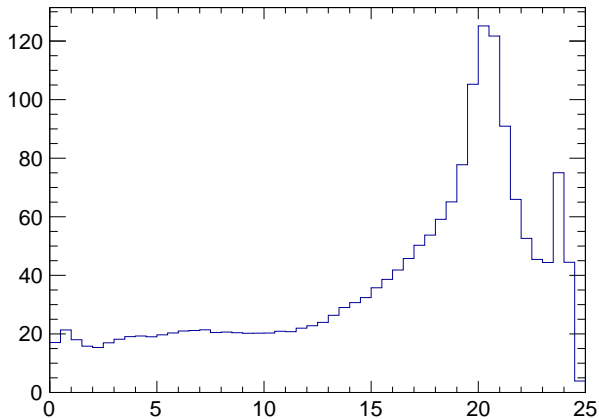
# LED scan



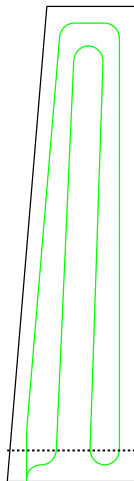
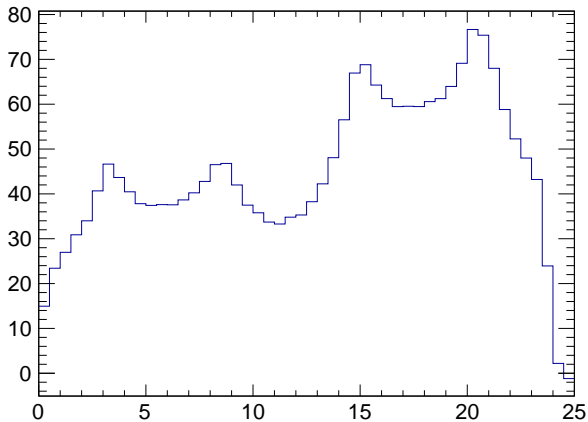
We scan in 0.5 cm increments in both directions

We scan 50 rows and 174 columns, which is slightly bigger than the tile itself

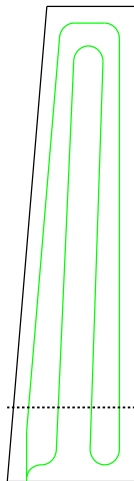
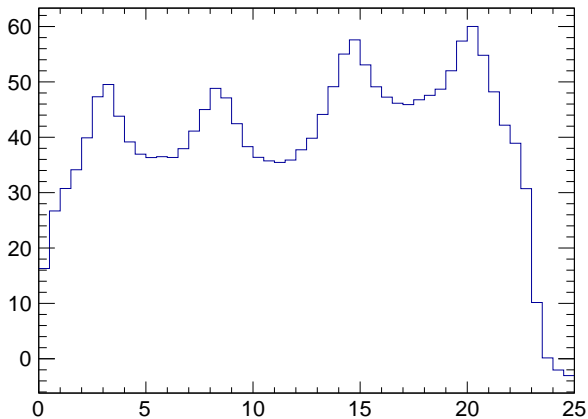




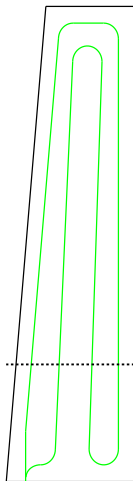
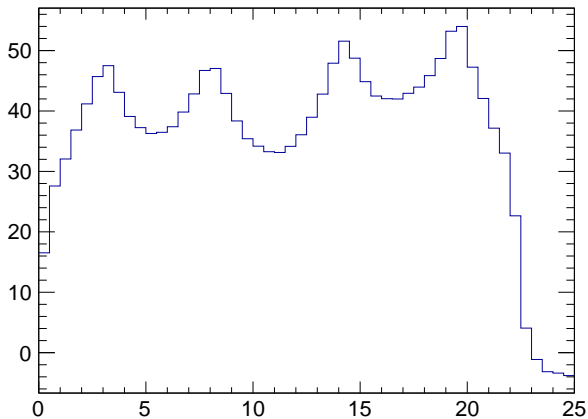
1D view of the short side, very close to the SiPM



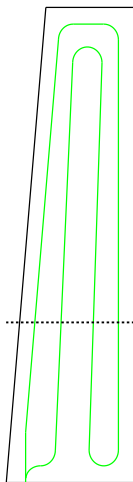
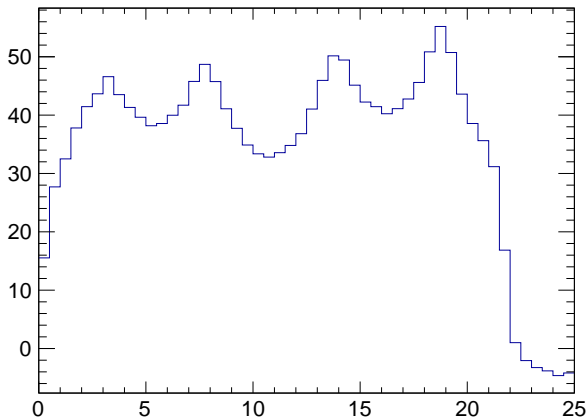
1D view of the short side, close to the SiPM



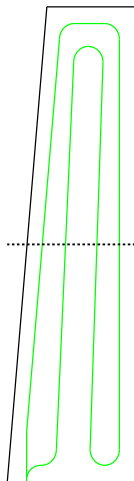
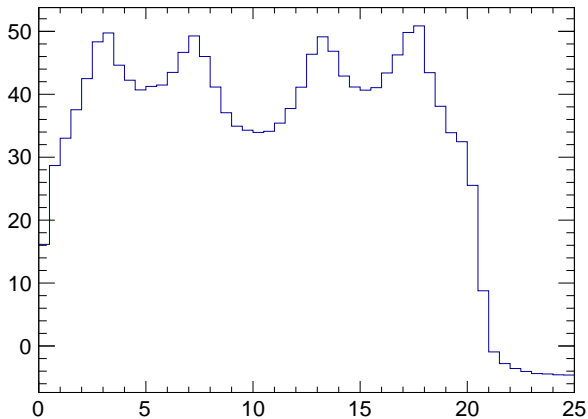
1D view of the short side, towards the middle



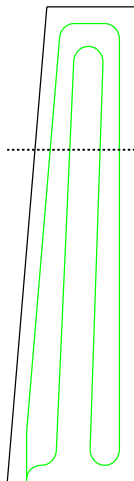
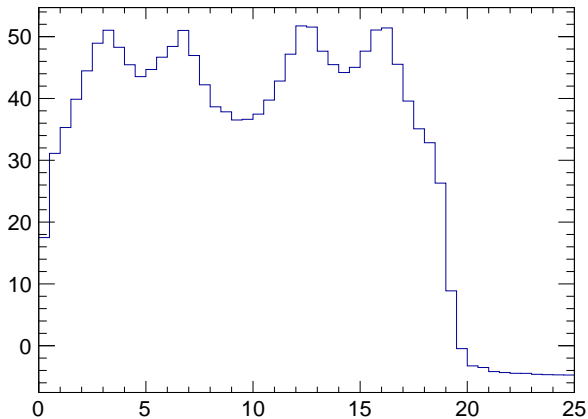
1D view of the short side, towards the middle



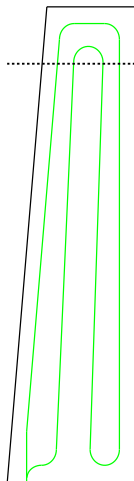
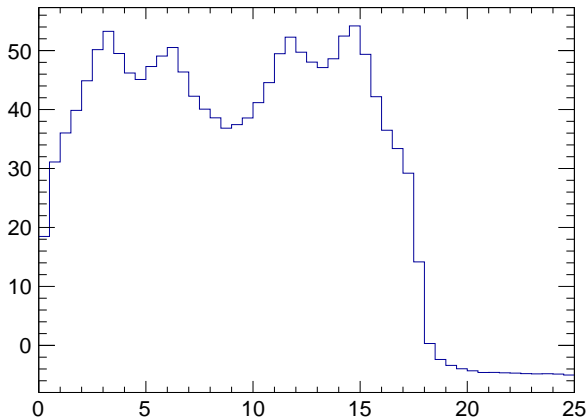
1D view of the short side, towards the middle



1D view of the short side, middle bin along the long axis

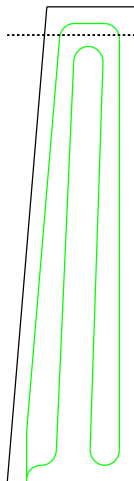
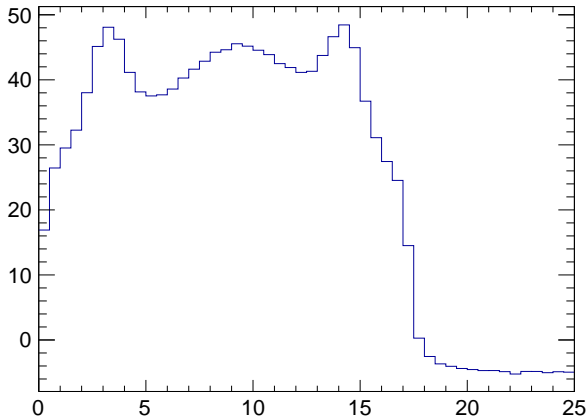


1D view of the short side, towards the opposite side

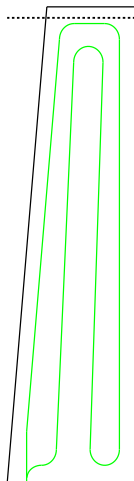
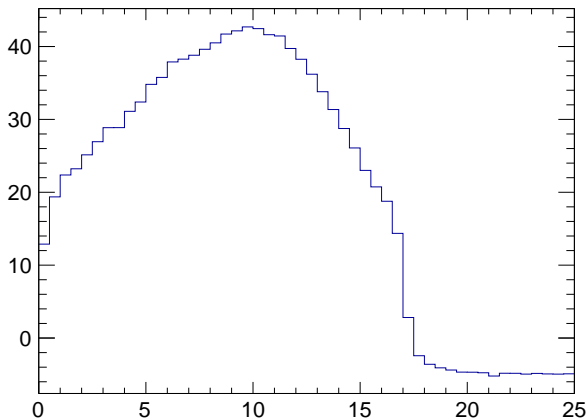


1D view of the short side, towards the opposite side





1D view of the short side, towards the opposite side



1D view of the short side, far edge of the panel

- Suggestions welcome!
- Do we have enough cosmics on the large tile?
- Cosmics and LED tests on the small tiles can also be done
- If we're happy with the large tile results, we can move on to the small tiles